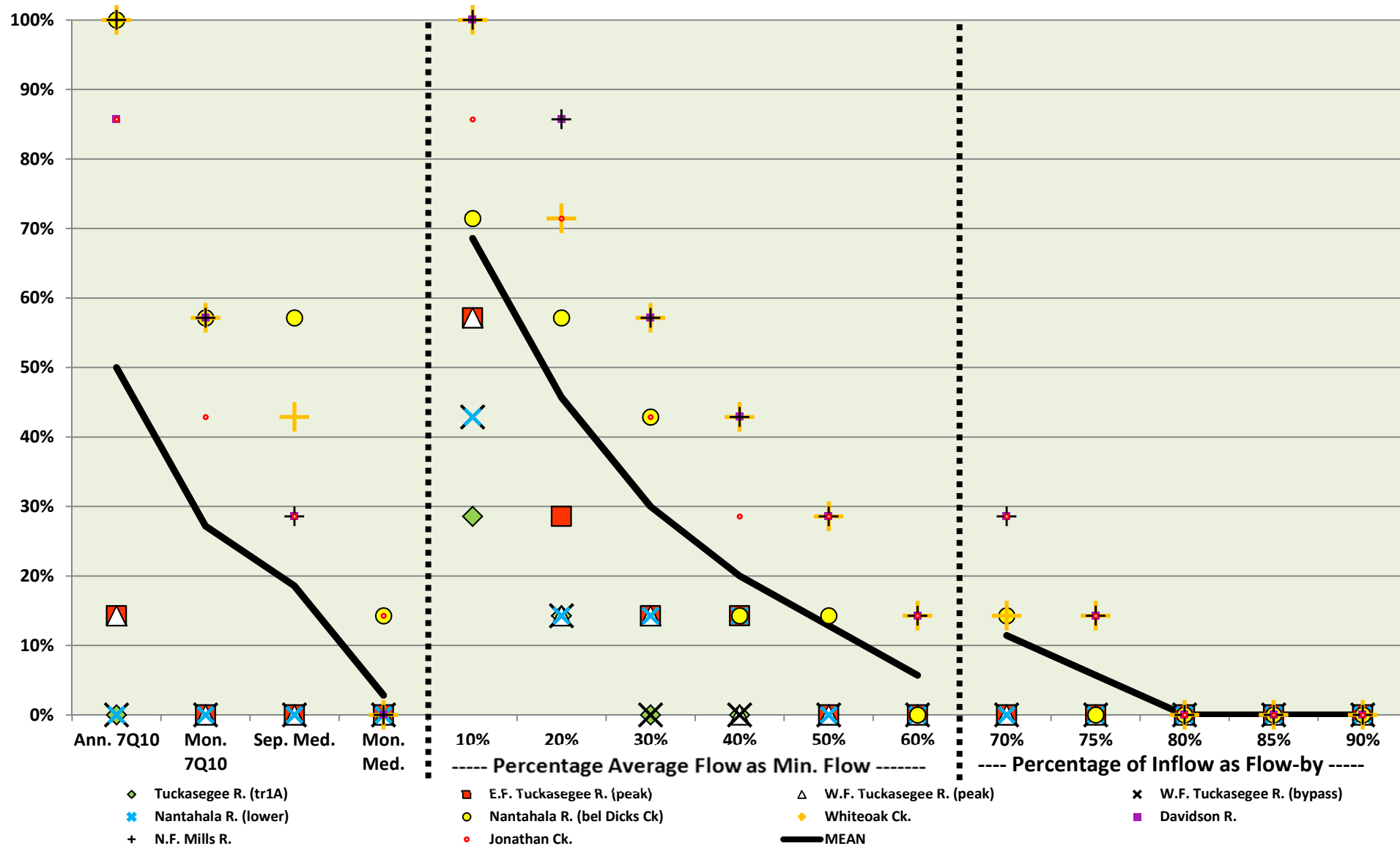


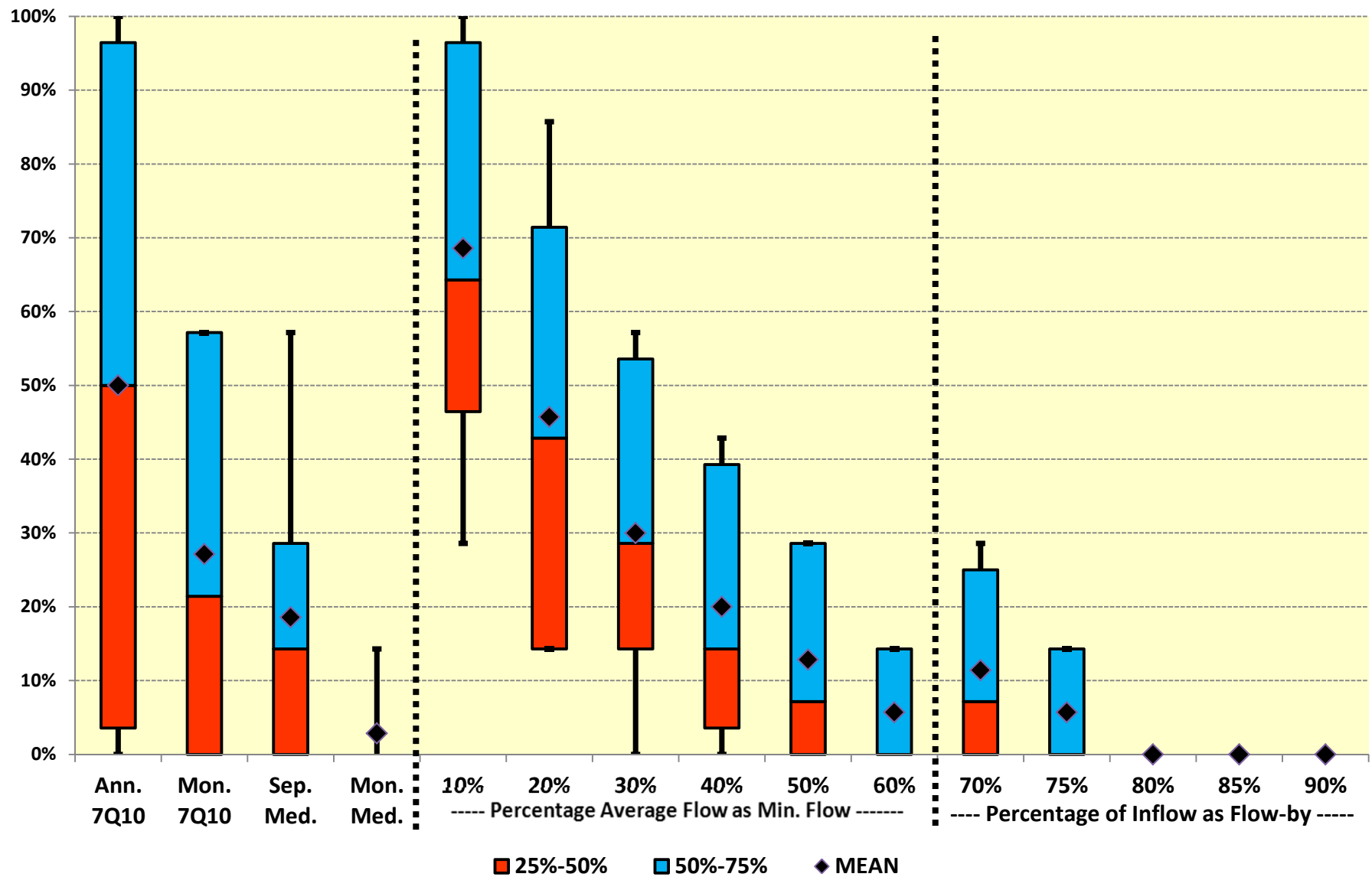
# SPRING

### Percentage of 7 Deep Mtn. Species/Life Stages with < 80% of Unregulated Index B WUA Value



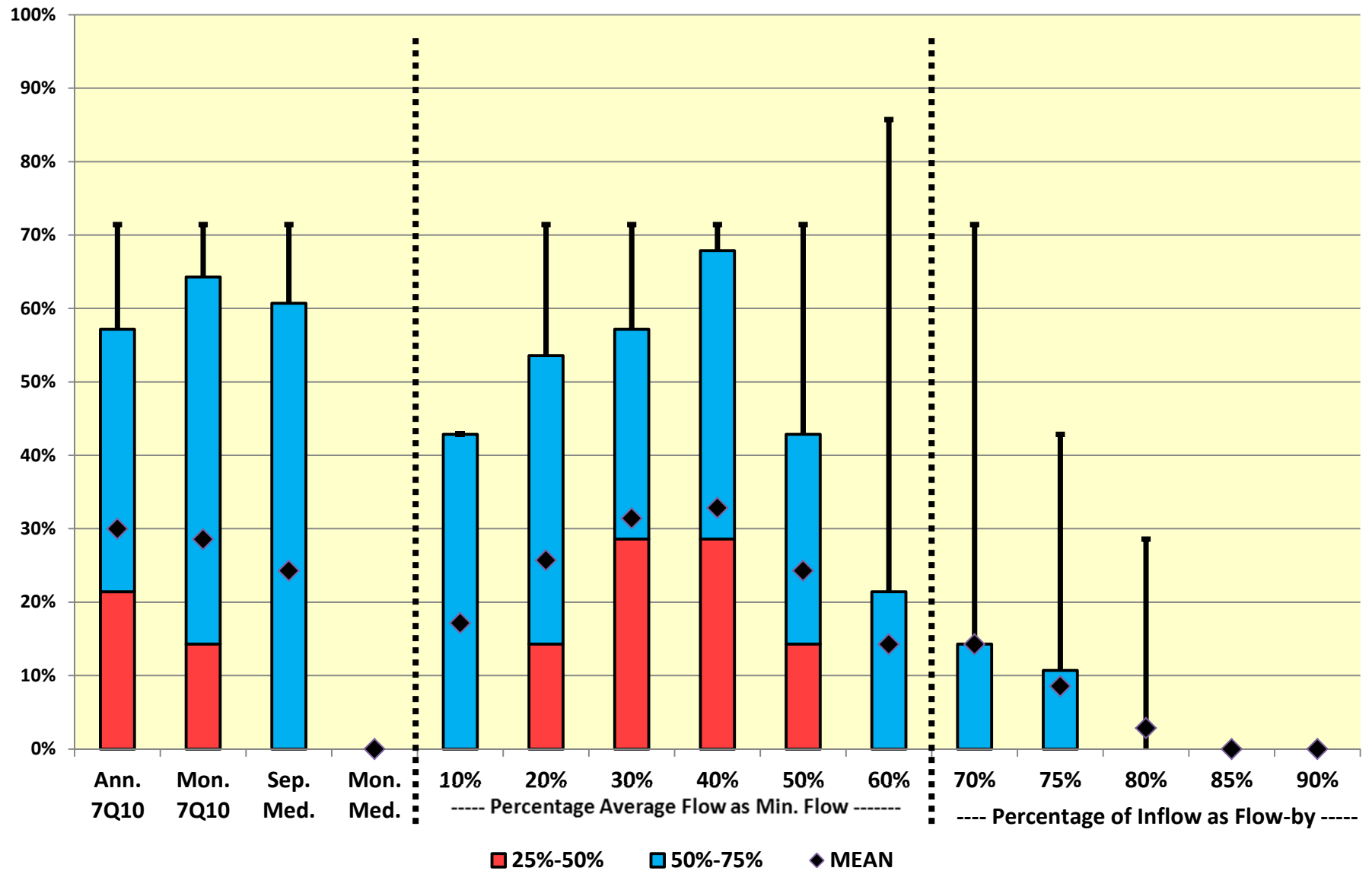
**SPRING**

**Percentage of 7 Deep Mtn. Species/Life Stages  
with < 80% of Unregulated Index B WUA Value**



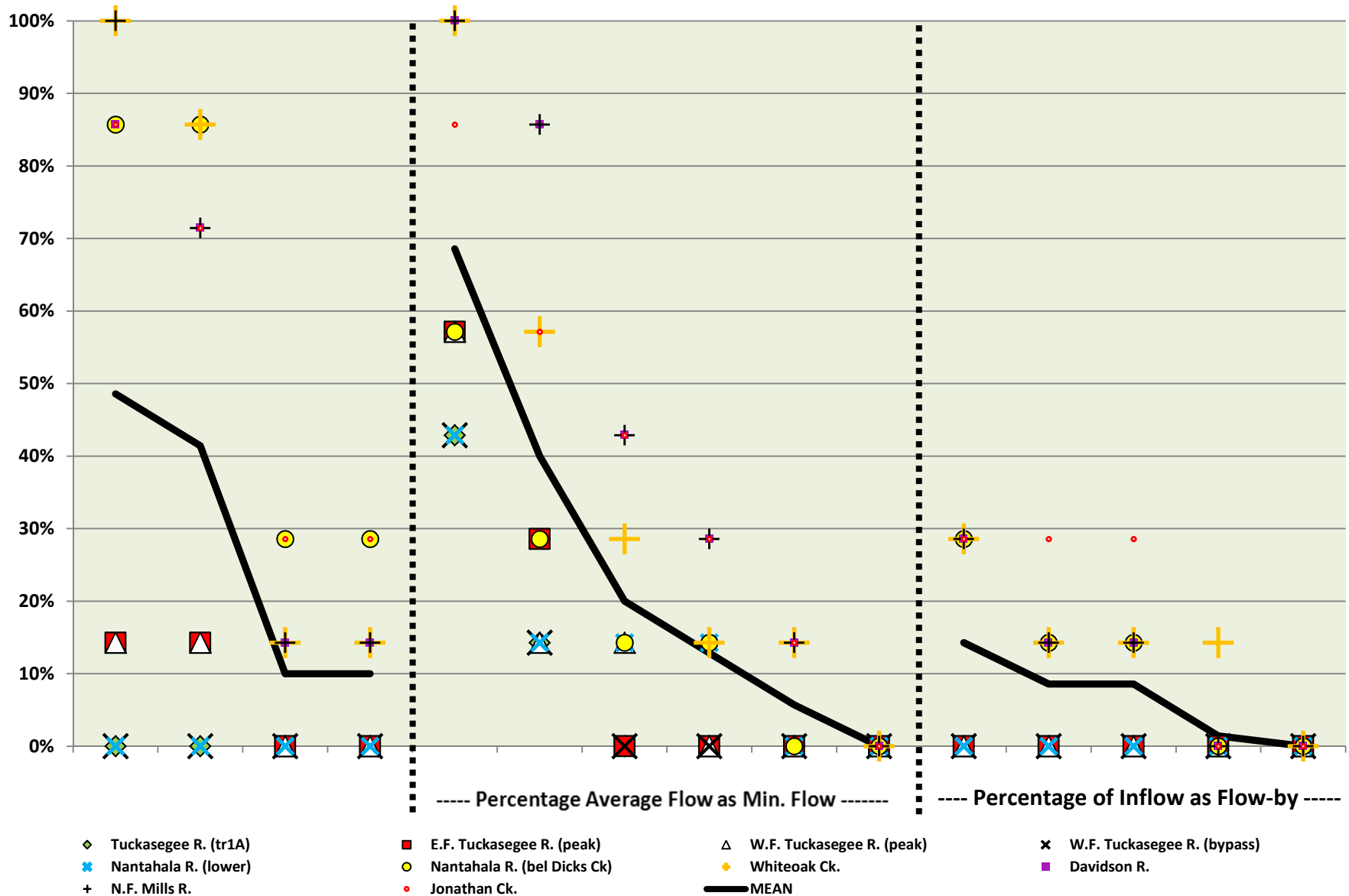
**SPRING**

**Percentage of 7 Deep Mtn. Species/Life Stages  
with > 120% of Unregulated Index B WUA Value**



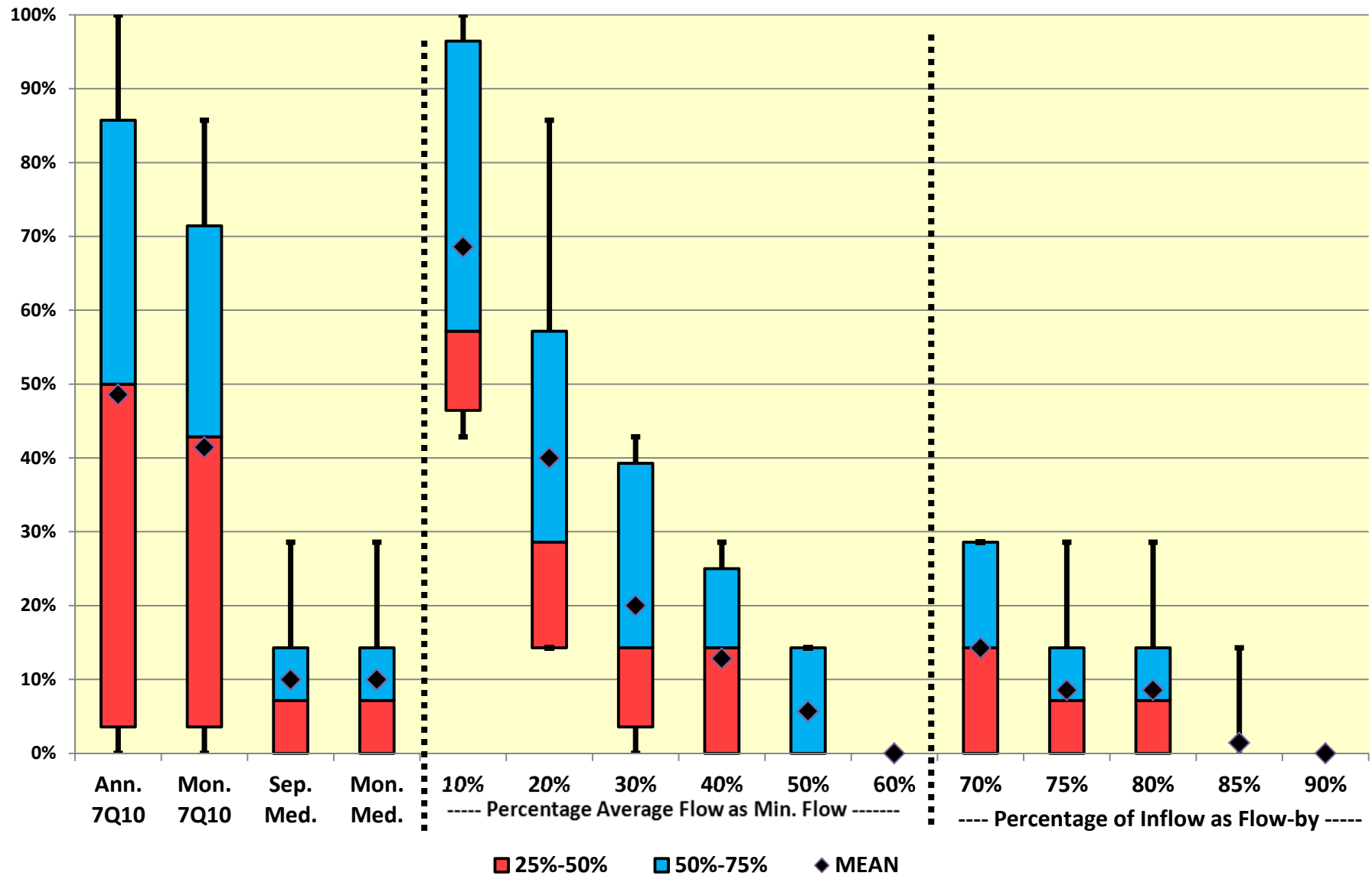
# SUMMER

## Percentage of 7 Deep Mtn. Species/Life Stages with < 80% of Unregulated Index B WUA Value



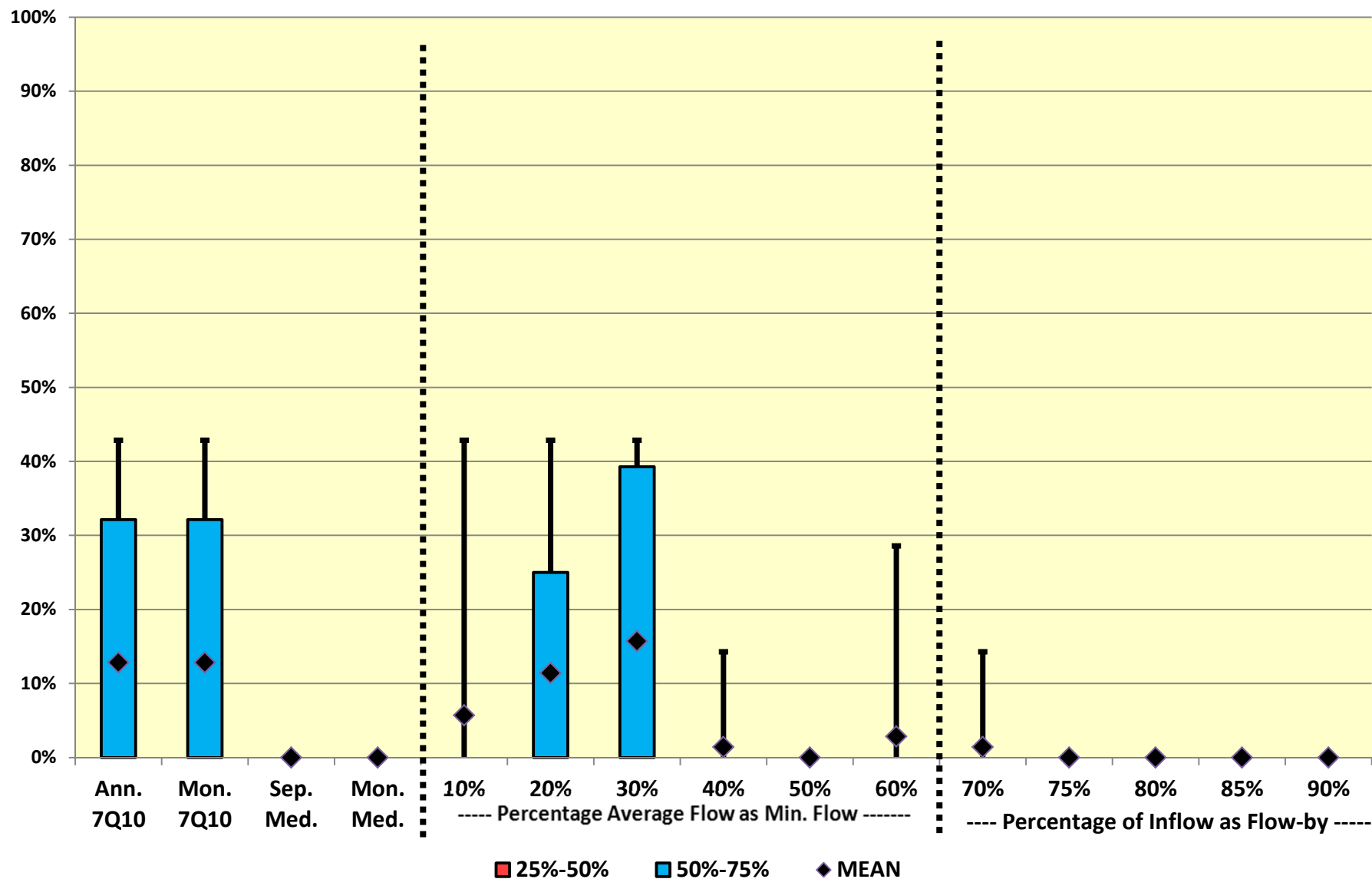
# SUMMER

## Percentage of 7 Deep Mtn. Species/Life Stages with < 80% of Unregulated Index B WUA Value



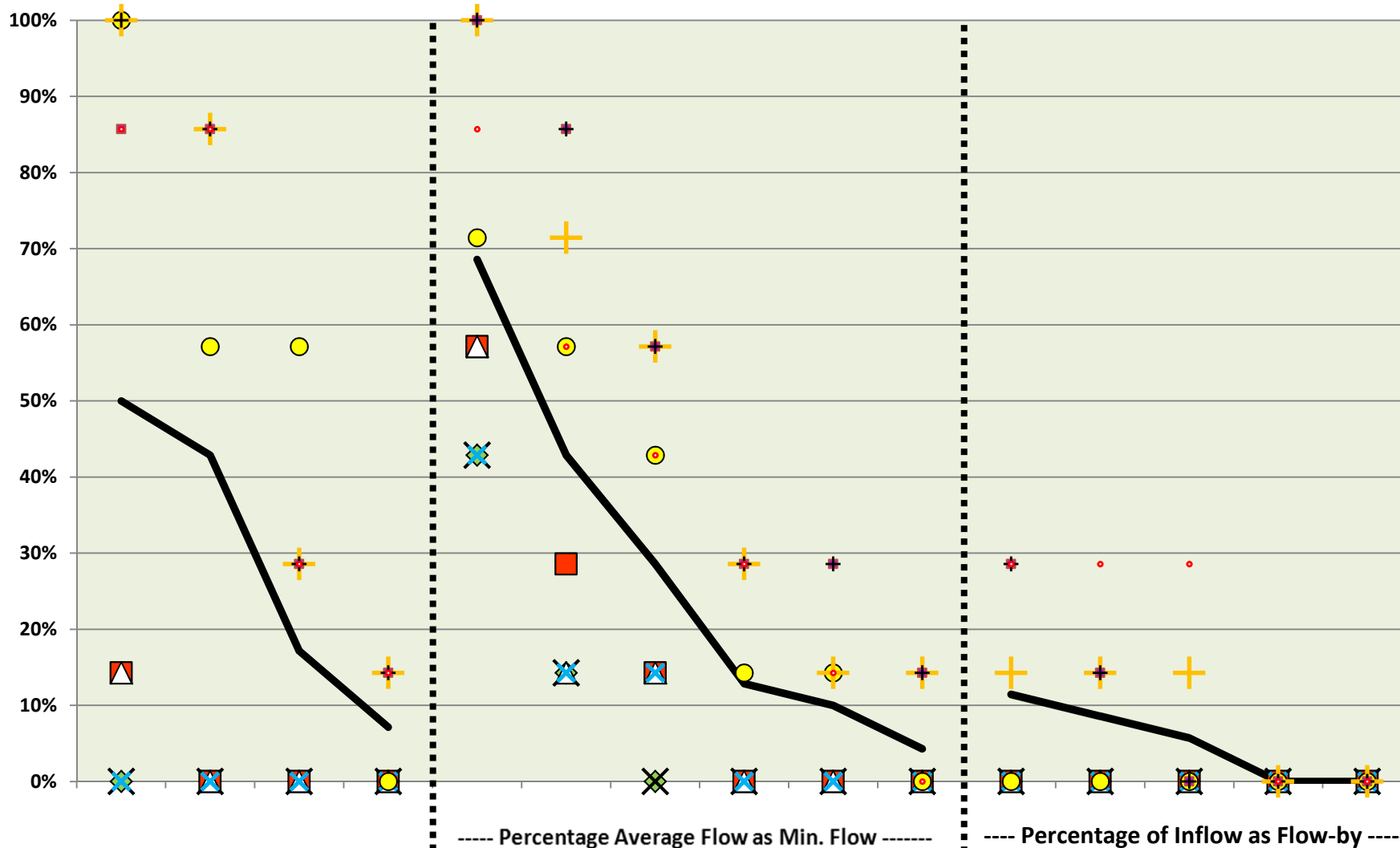
**SUMMER**

**Percentage of 7 Deep Mtn. Species/Life Stages  
with > 120% of Unregulated Index B WUA Value**



FALL

# Percentage of 7 Deep Mtn. Species/Life Stages with < 80% of Unregulated Index B WUA Value



◆ Tuckasegee R. (tr1A)

✦ Nantahala R. (lower)

+ N.F. Mills R.

■ E.F. Tuckasegee R. (peak)

● Nantahala R. (bel Dicks Ck)

● Jonathan Ck.

△ W.F. Tuckasegee R. (peak)

✦ Whiteoak Ck.

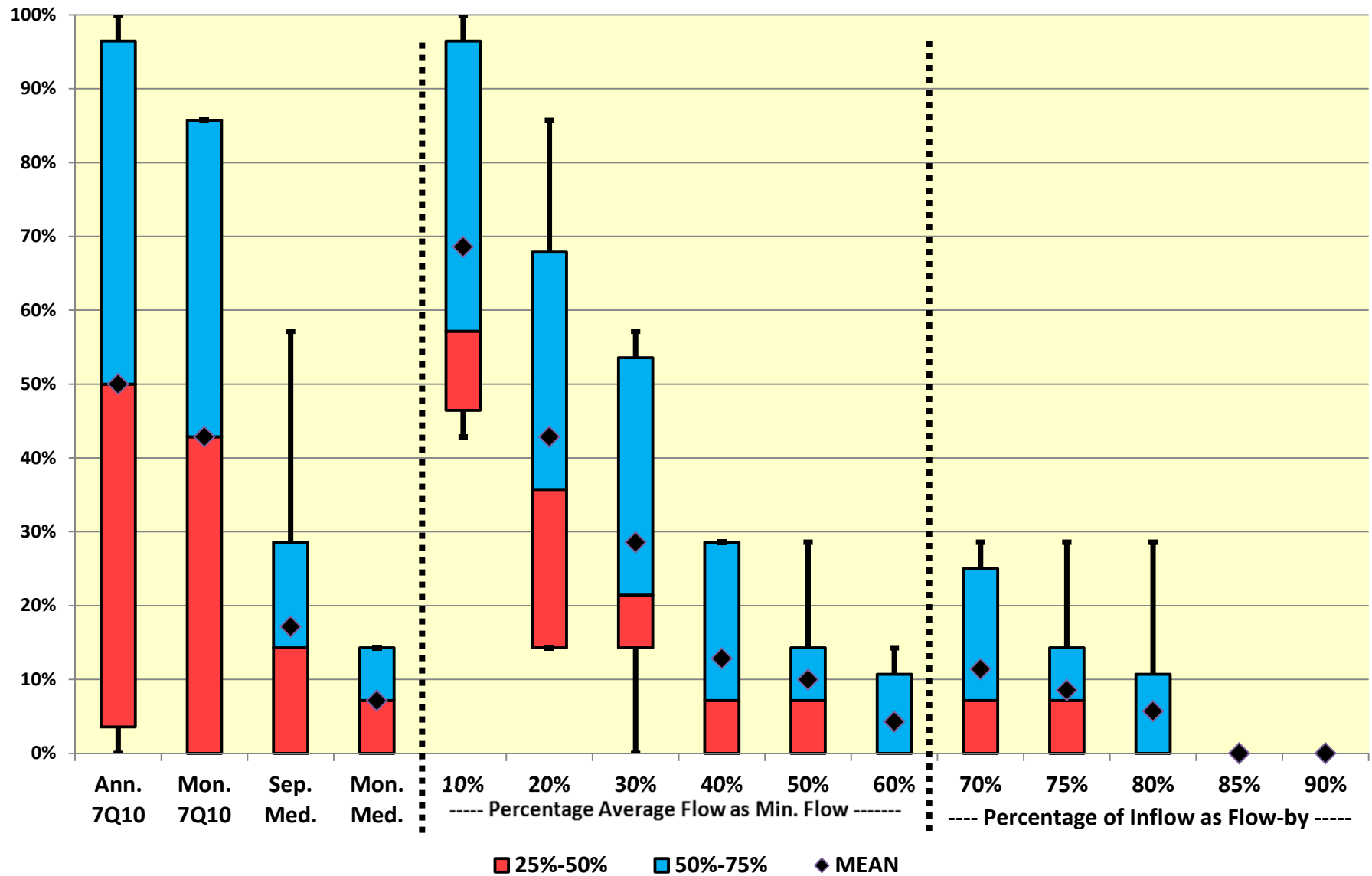
— MEAN

✦ W.F. Tuckasegee R. (bypass)

■ Davidson R.

**FALL**

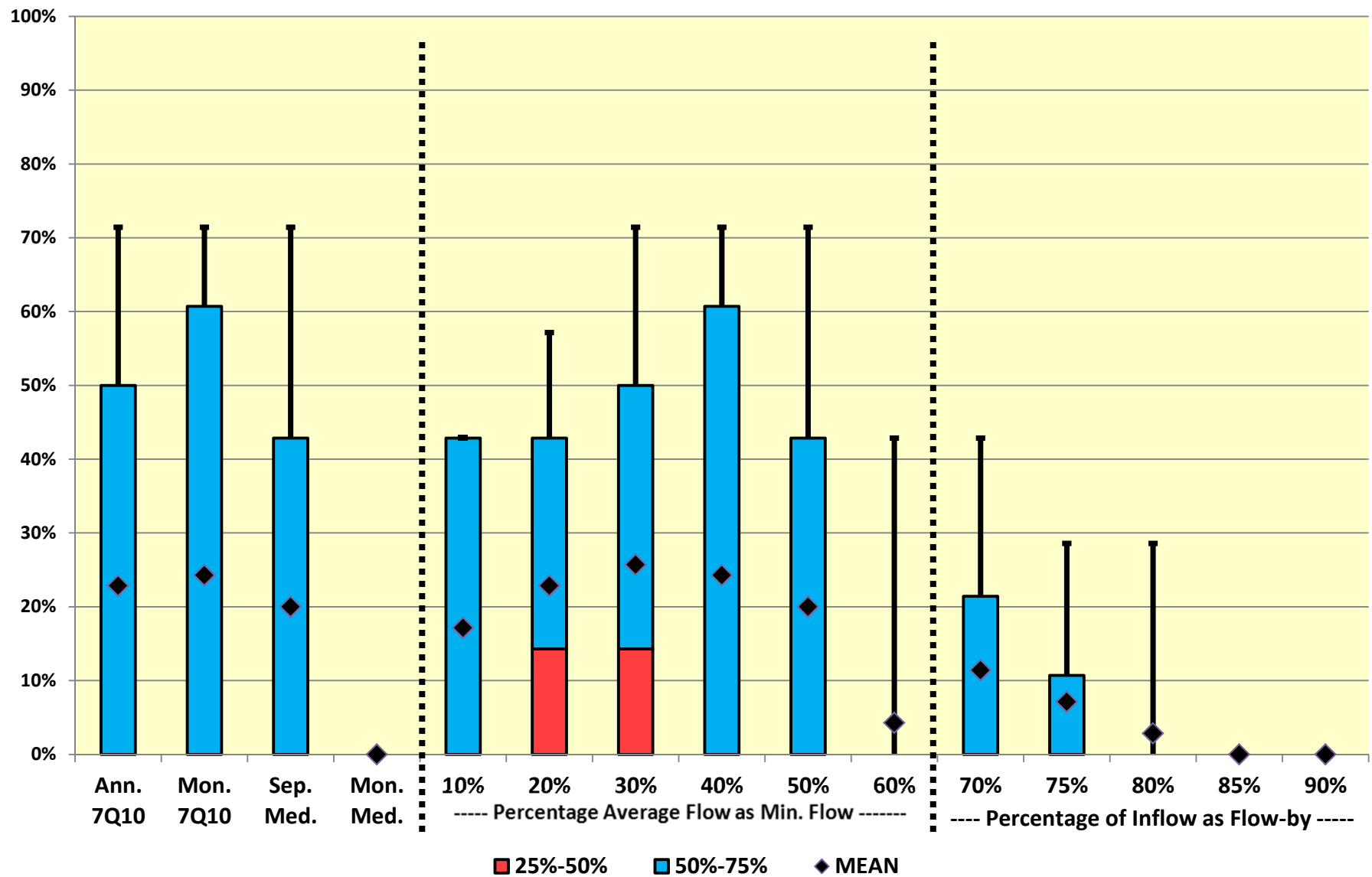
**Percentage of 7 Deep Mtn. Species/Life Stages  
with < 80% of Unregulated Index B WUA Value**





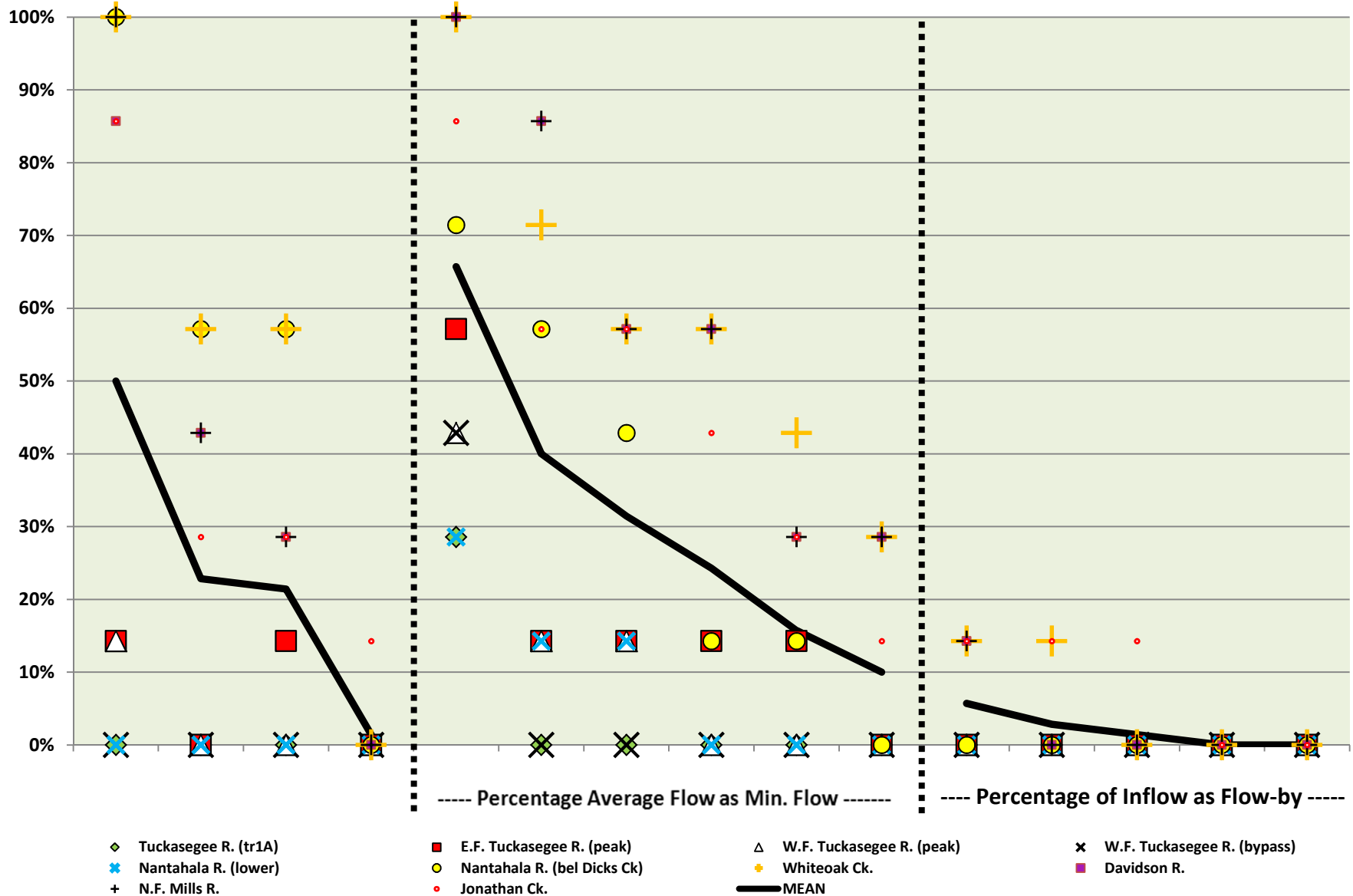
**FALL**

**Percentage of 7 Deep Mtn. Species/Life Stages  
with > 120% of Unregulated Index B WUA Value**



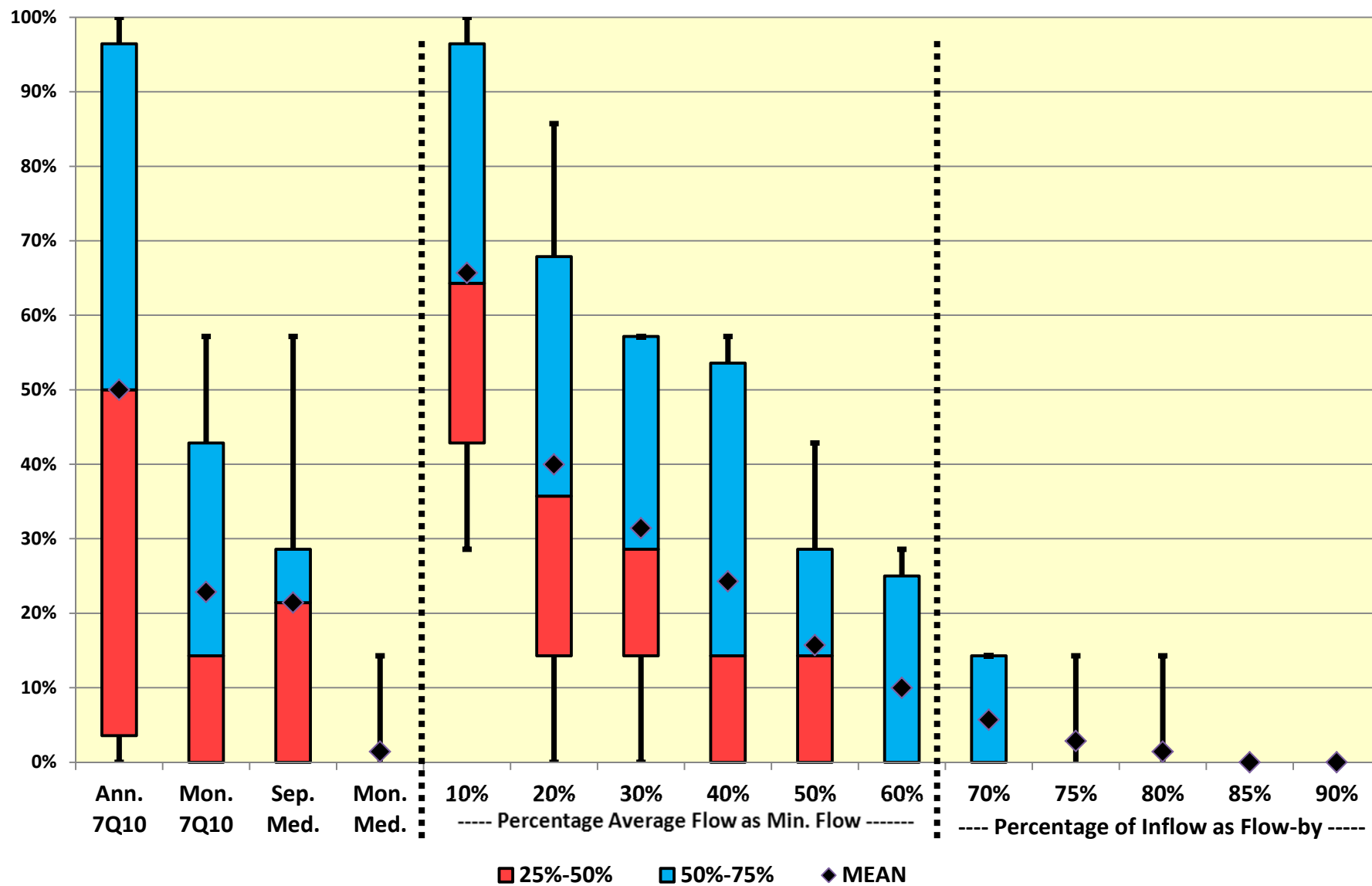
**WINTER**

# **Percentage of 7 Deep Mtn. Species/Life Stages with < 80% of Unregulated Index B WUA Value**



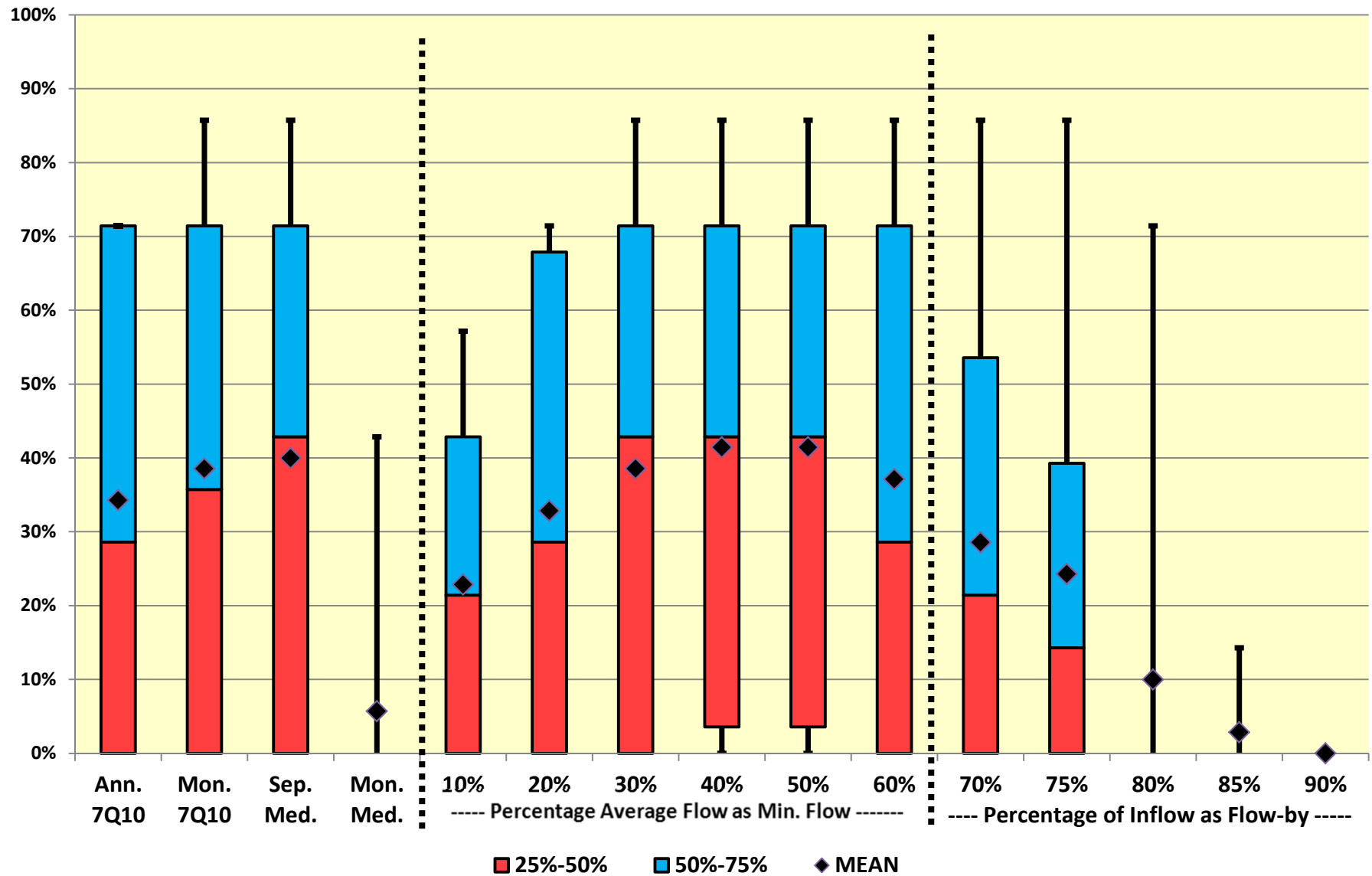
**WINTER**

**Percentage of 7 Deep Mtn. Species/Life Stages  
with < 80% of Unregulated Index B WUA Value**



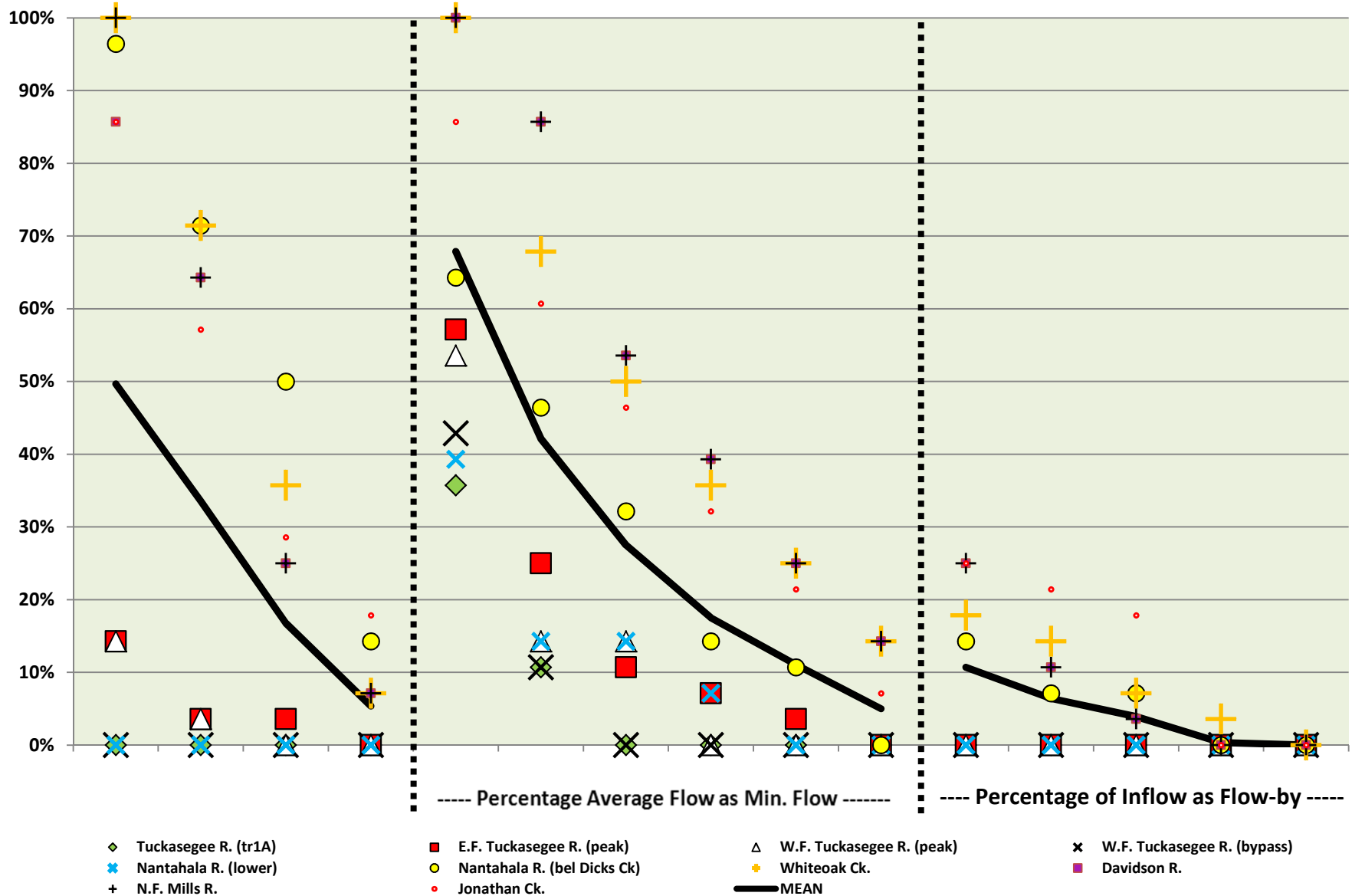
**WINTER**

**Percentage of 7 Deep Mtn. Species/Life Stages  
with > 120% of Unregulated Index B WUA Value**



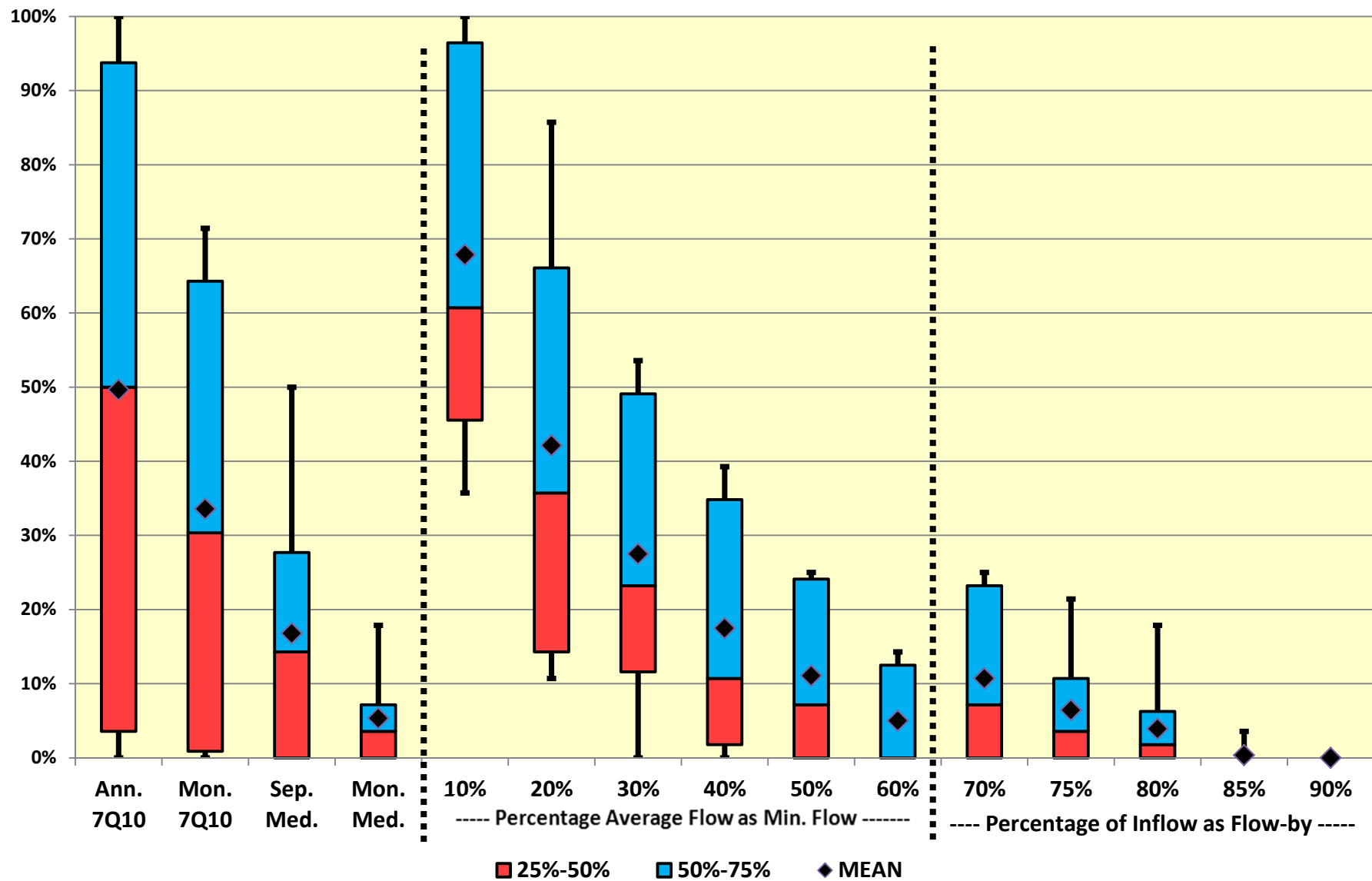
# ANNUAL AVERAGE

## Percentage of 7 Deep Mtn. Species/Life Stages with < 80% of Unregulated Index B WUA Value



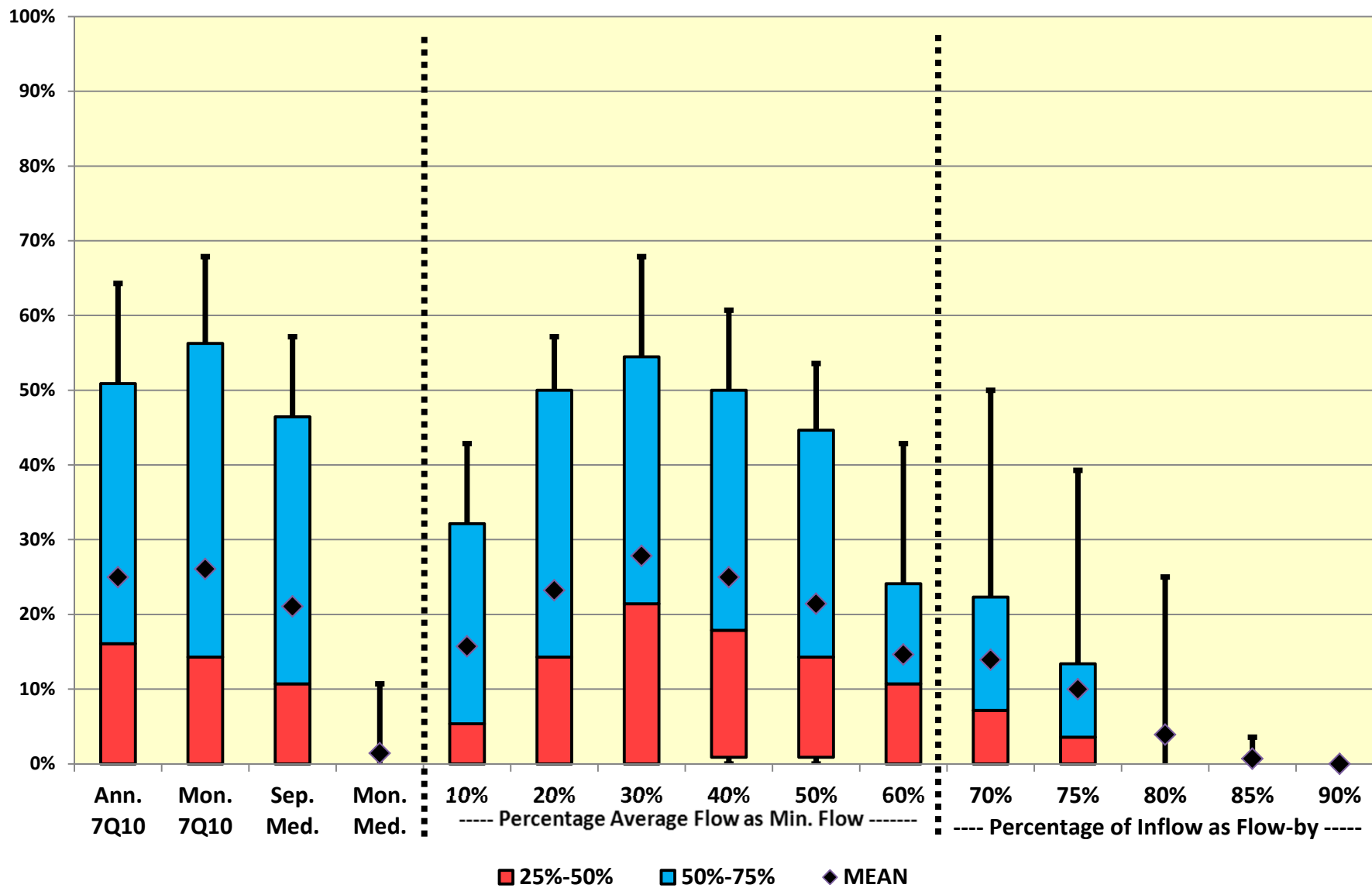
# ANNUAL AVERAGE

## Percentage of 7 Deep Mtn. Species/Life Stages with < 80% of Unregulated Index B WUA Value



# ANNUAL AVERAGE

## Percentage of 7 Deep Mtn. Species/Life Stages with > 120% of Unregulated Index B WUA Value



		Percentage < 80%		Percentage of 7 Deep Mtn. Species/Life Stages														
	MEAN	Ann. 7Q10	Mon. 7Q10	Sep. Med.	Mon. Med.	10%	20%	30%	40%	50%	60%	70%	75%	80%	85%	90%		
Spring		50.0%	27.1%	18.6%	2.9%	68.6%	45.7%	30.0%	20.0%	12.9%	5.7%	11.4%	5.7%	0.0%	0.0%	0.0%		
Summer		48.6%	41.4%	10.0%	10.0%	68.6%	40.0%	20.0%	12.9%	5.7%	0.0%	14.3%	8.6%	8.6%	1.4%	0.0%		
Fall		50.0%	42.9%	17.1%	7.1%	68.6%	42.9%	28.6%	12.9%	10.0%	4.3%	11.4%	8.6%	5.7%	0.0%	0.0%		
Winter		50.0%	22.9%	21.4%	1.4%	65.7%	40.0%	31.4%	24.3%	15.7%	10.0%	5.7%	2.9%	1.4%	0.0%	0.0%		
Annual Avg		49.6%	33.6%	16.8%	5.4%	67.9%	42.1%	27.5%	17.5%	11.1%	5.0%	10.7%	6.4%	3.9%	0.4%	0.0%		
Spring						68.6%	45.7%	30.0%	20.0%	12.9%	5.7%							
Spring												11.4%	5.7%	0.0%	0.0%	0.0%		
Summer						68.6%	40.0%	20.0%	12.9%	5.7%	0.0%							
Summer												14.3%	8.6%	8.6%	1.4%	0.0%		
Fall						68.6%	42.9%	28.6%	12.9%	10.0%	4.3%							
Fall												11.4%	8.6%	5.7%	0.0%	0.0%		
Winter						65.7%	40.0%	31.4%	24.3%	15.7%	10.0%							
Winter												5.7%	2.9%	1.4%	0.0%	0.0%		
Annual Avg						67.9%	42.1%	27.5%	17.5%	11.1%	5.0%							
Annual Avg												10.7%	6.4%	3.9%	0.4%	0.0%		

with < 80% of Unregulated Index B WUA Value

	Minimum release				minimum release = % MAF						% ambient flow-by				
Tuckasegee R. (tr1A)															
Spring	0.0%	0.0%	0.0%	0.0%	28.6%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Summer	0.0%	0.0%	0.0%	0.0%	42.9%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fall	0.0%	0.0%	0.0%	0.0%	42.9%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Winter	0.0%	0.0%	0.0%	0.0%	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Annual Avg	0.0%	0.0%	0.0%	0.0%	35.7%	10.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E.F. Tuckasegee R. (peak)															
Spring	14.3%	0.0%	0.0%	0.0%	57.1%	28.6%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Summer	14.3%	14.3%	0.0%	0.0%	57.1%	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fall	14.3%	0.0%	0.0%	0.0%	57.1%	28.6%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Winter	14.3%	0.0%	14.3%	0.0%	57.1%	14.3%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Annual Avg	14.3%	3.6%	3.6%	0.0%	57.1%	25.0%	10.7%	7.1%	3.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
W.F. Tuckasegee R. (peak)															
Spring	14.3%	0.0%	0.0%	0.0%	57.1%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Summer	14.3%	14.3%	0.0%	0.0%	57.1%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fall	14.3%	0.0%	0.0%	0.0%	57.1%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Winter	14.3%	0.0%	0.0%	0.0%	42.9%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Annual Avg	14.3%	3.6%	0.0%	0.0%	53.6%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
W.F. Tuckasegee R. (bypass)															
Spring	0.0%	0.0%	0.0%	0.0%	42.9%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Summer	0.0%	0.0%	0.0%	0.0%	42.9%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fall	0.0%	0.0%	0.0%	0.0%	42.9%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Winter	0.0%	0.0%	0.0%	0.0%	42.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Annual Avg	0.0%	0.0%	0.0%	0.0%	42.9%	10.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Nantahala R. (lower)															
Spring	0.0%	0.0%	0.0%	0.0%	42.9%	14.3%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Summer	0.0%	0.0%	0.0%	0.0%	42.9%	14.3%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fall	0.0%	0.0%	0.0%	0.0%	42.9%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Winter	0.0%	0.0%	0.0%	0.0%	28.6%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Annual Avg	0.0%	0.0%	0.0%	0.0%	39.3%	14.3%	14.3%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Nantahala R. (bel Dicks Ck)															
Spring	100.0%	57.1%	57.1%	14.3%	71.4%	57.1%	42.9%	14.3%	14.3%	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%
Summer	85.7%	85.7%	28.6%	28.6%	57.1%	28.6%	14.3%	14.3%	0.0%	0.0%	28.6%	14.3%	14.3%	0.0%	0.0%
Fall	100.0%	85.7%	57.1%	14.3%	57.1%	42.9%	28.6%	14.3%	14.3%	0.0%	14.3%	14.3%	14.3%	0.0%	0.0%
Winter	100.0%	57.1%	57.1%	0.0%	71.4%	57.1%	42.9%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Annual Avg	96.4%	71.4%	50.0%	14.3%	64.3%	46.4%	32.1%	14.3%	10.7%	0.0%	14.3%	7.1%	7.1%	0.0%	0.0%
Whiteoak Ck.															
Spring	100.0%	57.1%	42.9%	0.0%	100.0%	71.4%	57.1%	42.9%	28.6%	14.3%	14.3%	14.3%	0.0%	0.0%	0.0%
Summer	100.0%	85.7%	14.3%	14.3%	100.0%	57.1%	28.6%	14.3%	14.3%	0.0%	28.6%	14.3%	14.3%	14.3%	0.0%
Fall	100.0%	85.7%	28.6%	14.3%	100.0%	57.1%	28.6%	14.3%	14.3%	0.0%	28.6%	14.3%	14.3%	14.3%	0.0%
Winter	100.0%	57.1%	57.1%	0.0%	100.0%	71.4%	57.1%	57.1%	42.9%	28.6%	14.3%	14.3%	0.0%	0.0%	0.0%
Annual Avg	100.0%	71.4%	35.7%	7.1%	100.0%	67.9%	50.0%	35.7%	25.0%	14.3%	17.9%	14.3%	7.1%	3.6%	0.0%
Davidson R.															
Spring	85.7%	57.1%	28.6%	0.0%	100.0%	85.7%	57.1%	42.9%	28.6%	14.3%	28.6%	14.3%	0.0%	0.0%	0.0%
Summer	85.7%	71.4%	14.3%	14.3%	100.0%	85.7%	42.9%	28.6%	14.3%	0.0%	28.6%	14.3%	14.3%	0.0%	0.0%
Fall	85.7%	85.7%	28.6%	14.3%	100.0%	85.7%	57.1%	28.6%	28.6%	14.3%	28.6%	14.3%	0.0%	0.0%	0.0%
Winter	85.7%	42.9%	28.6%	0.0%	100.0%	85.7%	57.1%	57.1%	28.6%	28.6%	14.3%	0.0%	0.0%	0.0%	0.0%
Annual Avg	85.7%	64.3%	25.0%	7.1%	100.0%	85.7%	53.6%	39.3%	25.0%	14.3%	25.0%	10.7%	3.6%	0.0%	0.0%
N.F. Mills R.															
Spring	100.0%	57.1%	28.6%	0.0%	100.0%	85.7%	57.1%	42.9%	28.6%	14.3%	28.6%	14.3%	0.0%	0.0%	0.0%
Summer	100.0%	71.4%	14.3%	14.3%	100.0%	85.7%	42.9%	28.6%	14.3%	0.0%	28.6%	14.3%	14.3%	0.0%	0.0%
Fall	100.0%	85.7%	28.6%	14.3%	100.0%	85.7%	57.1%	28.6%	28.6%	14.3%	28.6%	14.3%	0.0%	0.0%	0.0%
Winter	100.0%	42.9%	28.6%	0.0%	100.0%	85.7%	57.1%	57.1%	28.6%	28.6%	14.3%	0.0%	0.0%	0.0%	0.0%
Annual Avg	100.0%	64.3%	25.0%	7.1%	100.0%	85.7%	53.6%	39.3%	25.0%	14.3%	25.0%	10.7%	3.6%	0.0%	0.0%
Jonathan Ck.															
Spring	85.7%	42.9%	28.6%	14.3%	85.7%	71.4%	42.9%	28.6%	28.6%	14.3%	28.6%	14.3%	0.0%	0.0%	0.0%
Summer	85.7%	71.4%	28.6%	28.6%	85.7%	57.1%	42.9%	28.6%	14.3%	0.0%	28.6%	28.6%	28.6%	0.0%	0.0%
Fall	85.7%	85.7%	28.6%	14.3%	85.7%	57.1%	42.9%	28.6%	14.3%	0.0%	28.6%	28.6%	28.6%	0.0%	0.0%
Winter	85.7%	28.6%	28.6%	14.3%	85.7%	57.1%	57.1%	42.9%	28.6%	14.3%	14.3%	14.3%	14.3%	0.0%	0.0%
Annual Avg	85.7%	57.1%	28.6%	17.9%	85.7%	60.7%	46.4%	32.1%	21.4%	7.1%	25.0%	21.4%	17.9%	0.0%	0.0%



**with > 120% of Unregulated Index B WUA Value**

**with > 120% of Unregulated Index B WUA Value**